

ABSTRACT

This invention provides isolated polynucleotides that encode replication accessory factors. The invention also provides novel DNA replication accessory factors, which have been isolated and purified from the hyperthermophilic archaea *Pyrococcus furiosus*. The invention also provides various methods of enhancing a nucleic acid polymerase reaction comprising the addition of the replication accessory factors to the reaction. This invention further provides methods of synthesizing, amplifying, and mutagenizing nucleic acids of interest employing the replication accessory factors. This invention also provides kits comprising at least one of the replication accessory factors. This invention also provides kits useful for various methods that comprise at least one replication accessory factor.

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